```
In [76]: runfile('C:/Users/Asus/.spyder-py3/CFD/Cavity Problem/Re=100,129x129,Steady/
CavityFlow_Steady_CSR_er_Temp.py', wdir='C:/Users/Asus/.spyder-py3/CFD/Cavity Problem/
Re=100,129x129,Steady')
1 [1.] 0 0
2 [2.00297854] 0 0
3 [1.47210239] 0 0
4 [3.2389463] 0 0
5 [1.12981703] 0 0
6 [1.18004943] 0 0
7 [1.29001327] 0 0
8 [1.06551136] 0 0
9 [1.43524669] 0 0
10 [1.09893914] 0 0
11 [1.13531352] 0 0
12 [1.85683983] 0 0
13 [1.02973545] 0 0
14 [1.81077931] 0 0
15 [0.97964118] 0 0
16 [0.92759859] 0 0
17 [1.75803096] 0 0
18 [0.99519478] 0 0
19 [1.06550089] 0 0
20 [0.76163216] 0 0
21 [0.82936269] 0 0
22 [0.85628108] 0 0
23 [0.77182363] 0 0
24 [0.76287247] 0 0
25 [0.7246285] 0 0
26 [0.80452048] 0 0
27 [0.84821462] 0 0
28 [0.62588807] 0 0
29 [0.44134192] 0 0
30 [0.48056135] 0 0
31 [0.49743766] 0 0
32 [0.44199727] 0 0
33 [0.4641095] 0 0
34 [0.36392717] 0 0
35 [0.38602336] 0 0
36 [0.36467165] 0 0
37 [0.30023776] 0 0
38 [0.27913924] 0 0
39 [0.20704097] 0 0
40 [0.2196289] 0 0
41 [0.18746661] 0 0
42 [0.18323151] 0 0
43 [0.18731744] 0 0
44 [0.14772656] 0 0
45 [0.1499134] 0 0
46 [0.12703679] 0 0
47 [0.11676356] 0 0
48 [0.10208185] 0 0
49 [0.0840928] 0 0
50 [0.08494054] 0 0
```

51 [0.06784159] 0 0
52 [0.07384891] 0 0
53 [0.06385961] 0 0
54 [0.05292085] 0 0
55 [0.05913876] 0 0
56 [0.04544925] 0 0
57 [0.0473576] 0 0
58 [0.04153425] 0 0
59 [0.03541125] 0 0
60 [0.03523689] 0 0
61 [0.02834183] 0 0
62 [0.02817952] 0 0
63 [0.0235397] 0 0
64 [0.0220831] 0 0
65 [0.02078417] 0 0
66 [0.01696194] 0 0
67 [0.01765806] 0 0
68 [0.01549284] 0 0
69 [0.01420505] 0 0
70 [0.01251228] 0 0
71 [0.01038672] 0 0
72 [0.00978983] 0 0
73 [0.00756772] 0 0
74 [0.00707771] 0 0
75 [0.00585631] 0 0
76 [0.00431109] 0 0
77 [0.00450905] 0 0
78 [0.00359302] 0 0
79 [0.0029753] 0 0
80 [0.00296171] 0 0
81 [0.00231245] 0 0
82 [0.00174829] 0 0
83 [0.00160316] 0 0
84 [0.00132089] 0 0
85 [0.00094646] 0 0
86 [0.000822] 0 0
87 [0.00064648] 0 0
88 [0.00047436] 0 0
89 [0.0003853] 0 0
90 [0.00047432] 0 0
91 [0.00038527] 0 0
92 [0.00030368] 0 0
93 [0.00023689] 0 0
94 [0.00018194] 0 0
95 [0.00014424] 0 0
96 [0.00011694] 0 0
97 [8.96031467e-05] 0 0
98 [7.16137351e-05] 0 0
99 [6.36085978e-05] 0 0
100 [4.82523572e-05] 0 0
101 [3.47006675e-05] 0 0
102 [2.62487539e-05] 0 0
103 [2.46442819e-05] 0 0
104 [0.00029042] 0 0
105 [0.00018657] 0 0

```
106 [0.00014622] 0 0
107 [0.00011656] 0 0
108 [9.59022567e-05] 0 0
109 [7.58765707e-05] 0 0
110 [5.73791369e-05] 0 0
111 [4.37580307e-05] 0 0
112 [3.73596458e-05] 0 0
113 [2.8119137e-05] 0 0
114 [2.54967893e-05] 0 0
115 [1.59027053e-05] 0 0
116 [1.55428895e-05] 0 0
117 [1.22419661e-05] 0 0
118 [1.15819588e-05] 0 0
119 [4.12351229e-06] 0 0
120 [4.41150425e-06] 0 0
121 [4.93993138e-06] 0 0
122 [5.99160365e-06] 0 0
123 [8.18405024e-06] 0 0
124 [1.29742899e-05] 0 0
125 [2.1569406e-05] 0 0
126 [3.07426783e-05] 0 0
127 [3.5862197e-05] 0 0
128 [1.54885383e-05] 0 0
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130 [3.02967558e-05] 0 0
131 [3.42475374e-06] 0 0
132 [2.01548831e-05] 0 0
133 [4.21895132e-06] 0 0
134 [1.40054899e-05] 0 0
135 [1.89161804e-06] 0 0
136 [1.07372013e-05] 0 0
137 [2.00998428e-06] 0 0
138 [1.67847096e-05] 0 0
139 [1.27581674e-06] 0 0
140 [3.39223381e-06] 0 0
141 [1.66195587e-05] 0 0
142 [1.13112237e-06] 0 0
143 [2.67736522e-06] 0 0
144 [3.62992195e-05] 0 0
145 [9.73961471e-07] 0 0
0
Average Nusselt on top plane: -4.41367194278221
```
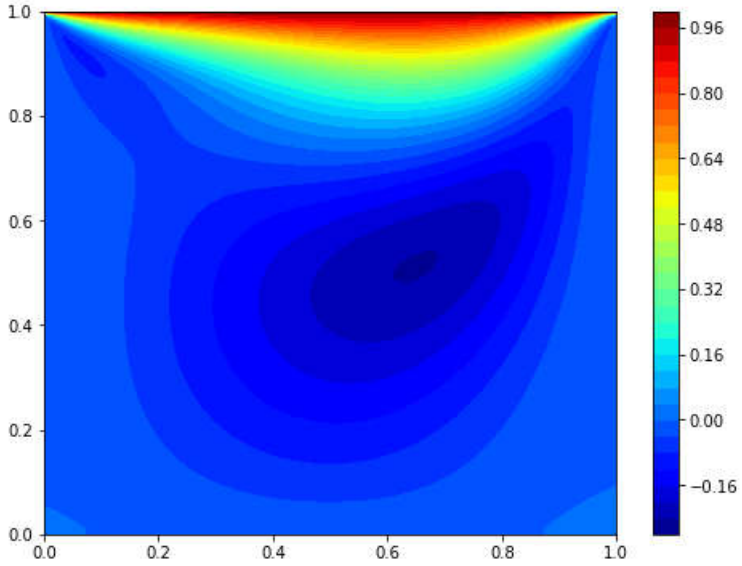
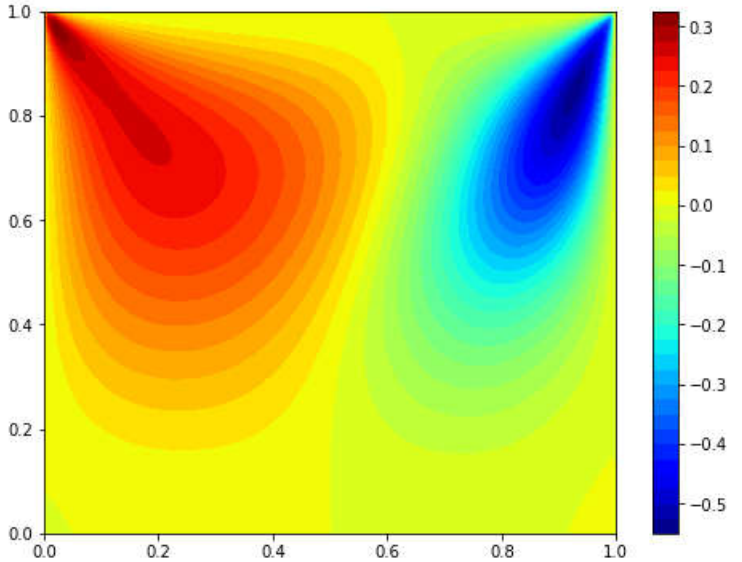
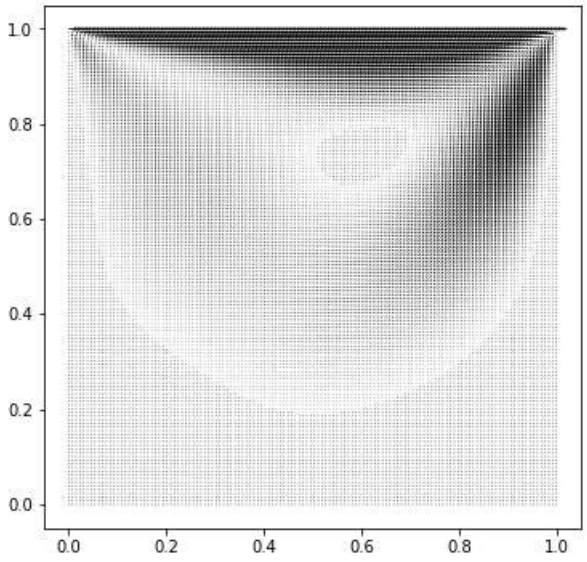
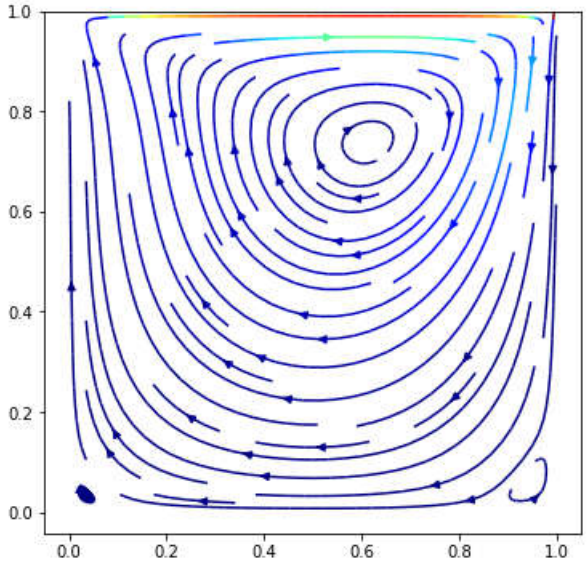


1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
0.96
0.80
0.64
0.48
0.32
0.16
0.00
−0.16


1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5


1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0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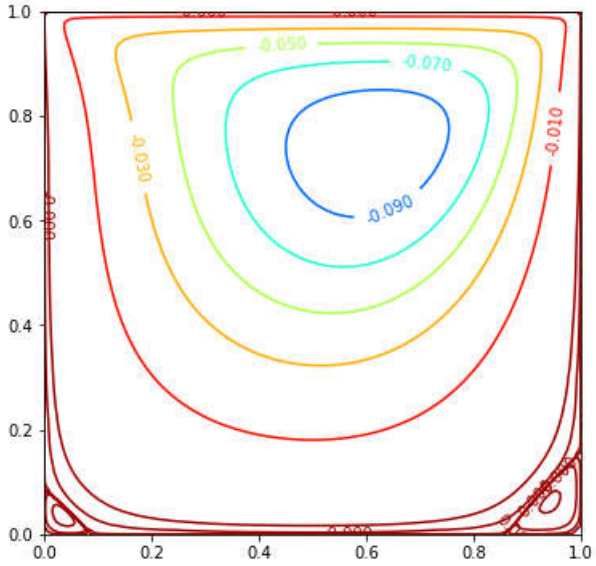
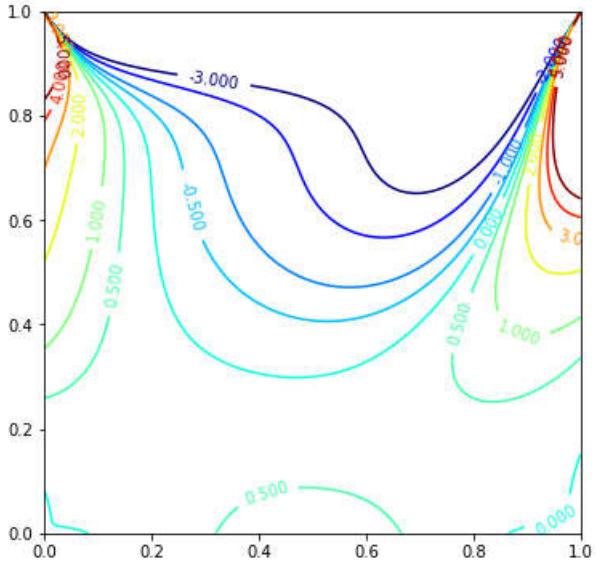
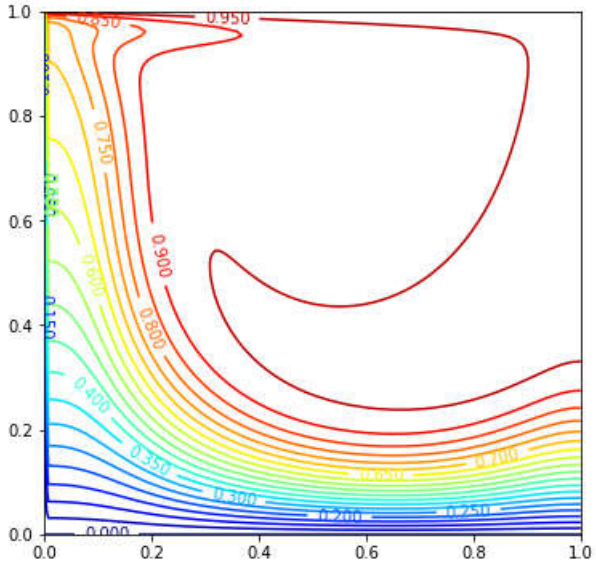
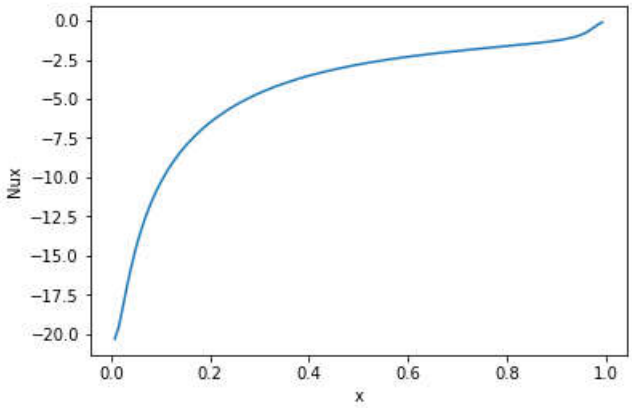
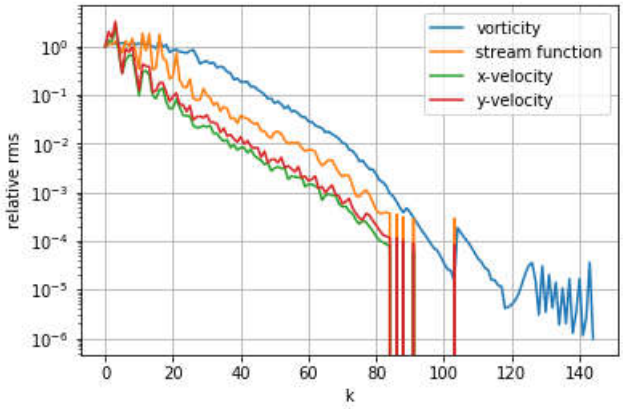
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


-0.050
-0.070
-0.030
-0.010
-0.090
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


-3.000
2.000
1.000
0.500
-0.500
0.000
-1.000
0.500
1.000
0.500
0.000
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


0.950
0.900
0.850
0.800
0.750
0.700
0.650
0.600
0.550
0.500
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.0
0.2
0.4
0.6
0.8
1.0


Nux
x
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
−17.5
−20.0
0.0
0.2
0.4
0.6
0.8
1.0


vorticity
stream function
x-velocity
y-velocity
relative rms
k
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
0
20
40
60
80
100
120
140

In [77]: